## Chapter 7 Index

A	
affected environment, defined	3-1, 3-2, 3-7, 3-10, 3-12, 3-26, 3-32,
•	3-43, 3-46, 3-50, 3-54, 3-69, 3-75
air quality	3-9, 3-10, 4-6-4-7, 4-15, 4-17, 4-45,
4	4-46, 4-48-4-49, 5-3, 5-55, 5-6, 5-11
Alternating Gradient Synchrotron (AGS)	1-8, 1-10, 1-11, 3-4, 3-18, 3-20, 3-57,
Anternating Gradient Synchrotron (AGS)	3-70, 3-72, 4-47, 4-49, 4-50, 4-52, 4-53,
	4-54
aquatic resources	3-31, 3-38-3-39, 4-14
<u> </u>	3-42, 3-43, 3-44
archaeological sites	
artifacts	3-42
Associated Universities, Inc.	3-44
B	
Basic Energy Sciences Advisory Committee	1-2
Brookhaven Accelerator Facility (BAF)	4-47-4-48, 4-49, 4-50, 4-52, 4-53, 4-54
Brookhaven Center for Imaging and Neuroscience	1-11
Brookhaven Graphite Research Reactor (BGRR)	1-8, 4-54
Brookhaven Linac Isotope Producer (BLIP)	1-8
Brookhaven National Laboratory (BNL)	
buildings onsite	3-4, 3-5, 3-7
core missions	1-10
established	1-8, 3-43-3-44
Final Environmental Impact Statement (ERDA-1540)	1-6
history	1-8
knowledge transfer (as a core mission)	1-10
land use categories onsite	3-3-3-4
location of	1-8
residences onsite	3-5
scientific research (as a core mission)	1-10
technology development (as a core mission)	1-10
user facilities (as a core mission)	1-10
Brookhaven, town of	3-2, 3-3, 3-5, 3-43, 3-50, 4-47
Diookiiaveii, towii oi	3-2, 3-3, 3-3, 3-43, 3-30, 4-47
C	
C	3-9, 3-10, 5-5
Clean Air Act (CAA)	
Comprehensive Environmental Response, Compensation,	1-5, 1-21, 3-12, 3-18, 3-21, 3-40,
and Liability Act (CERCLA)	3-63, 3-69, 4-9, 4-10, 4-11, 4-43, 4-47, 5-3,
	5-6, 5-7, 5-10
Cosmotron	1-8
cultural resources	3-42–XX, 4-19, 4-43, 4-58
D	
decontamination and decomission (D&D)	2-3, 2-4, 2-7, 3-69, 3-70, 3-71, 4-17,
	4-21, 4-23, 4-34, 4-39, 4-40, 4-41, 4-43,

	4-44, 4-53, 4-54, 4-56, 4-57
Department of Energy (DOE)	
cooperation with EPA, NYSDEC, and SCDHS	1-5, 1-20, 3-17, 3-21
decision process about HFBR	1-1, 1-2, 1-3, 1-5, 1-21, 2-3, 2-8
Federal and New York State agency agreements	1-21
focus on environmental issues	1-1, 1-2, 1-3, 1-5, 1-10, 1-21, 2-3, 2-5,
	2-6, 2-7, 2-8
initiates Tritium Remediation Project (TRP)	1-20, 3-21
Orders	3-69
permits and consultations	
relationship with BNL	1 20 1 21 2 17 2 20 2 25 2 67 4 0
drinking water standard	1-20, 1-21, 3-17, 3-20, 3-25, 3-67, 4-9,
	4-10, 4-11, 4-14, 4-15, 4-45, 4-52, 5-3,
	5-4, 5-6, 5-11
E	
ecological resources	3-31-XXX, 4-14-4-18
emergency classification	3-62
emergency response plans	3-49, 3-54, 3-61–3-64, 3-65, 3-67–3-68
employment, effects of HFBR	5 15,5 5 1,5 61 5 61,5 65,5 67 5 66
endangered species	3-31-3-32, 3-40-3-41, 4-15, 4-16, 4-17
S. T. T.	4-18, 5-2, 5-12
Environmental Impact Statement (EIS)	, ,
direction for	1-1, 1-2, 1-3, 1-5
process	1-1, 1-2, 1-3, 1-4, 1-5, 2-8
organization of	
environmental justice	3-74–3-XX, 4-42
Environmental statutes, regulations and	
Executive Orders	1-1, 1-2, 1-3, 1-4, 1-10, 5-1-5-12
environmental permits	4-47, 5-1–5-12
Environmental Management System (EMS)	4-55
T.	
F	
Federal Radiological Emergency Response Plan	5.2
Federal Facilities Compliance Act	5-3
fossils	3-42
$\mathbf{G}$	
geology	3-26-XX, 4-13
groundwater	3 20 1111, 1 13
defined	3-12
monitoring wells	1-20, 1-21
protection of	2-4, 2-5, 2-6, 2-7
pumping of	
regulations protecting	
sampling	1-20
tritium discovered in	1-2, 1-4, 1-20, 1-21
H	
hazardous waste	1-4, 1-6, 1-7, 3-72, 4-38, 4-39, 4-40,
	4-41, 4-57, 5-3, 5-4, 5-6, 5-12

heavy water (D <sub>2</sub> O)	1-11, 1-13, 1-16, 2-3, 2-5, 3-56. 4-6,
High Flux Beam Reactor (HFBR) achievements alternatives considered alternatives considered but not analyzed alternatives compared begins operation cancer research decision process concerning description energy research environmental review fuel element importance of location of medical uses modifications to neutron scattering operation physical plant regulations concerning research spectrometer spent fuel pool users	1-14 2-1-2-3 2-4 2-8, 2-9-2-25 1-14, 1-15
historic resources historic sites hot lab	3-42-3-44, 5-2 3-44 1-8, 2-5
I industrial waste industry infrastructure  J,K	1-7, 3-72–3-73, 4-38, 4-39, 4-40, 4-56 1-8, 1-10, 1-11 3-7–XX, 4-3–4-5
No entries	
L land use location of the Maximally Exposed Individual (MEI) Long Island Railroad (LIRR) low-level mixed waste (LLMW) low-level waste (LLW)	3-2, 3-3, 3-4, 4-2, 5-11 3-57 3-7, 3-11 1-6, 1-7 1-7, 3-69, 3-70–3-71, 4-37, 4-38–4-40, 4-41, 4-45–4-46, 4-48, 4-52–4-54, 5-8
M maximally exposed individual (MEI) medical research reactor mixed waste	3-57, 4-25, 4-26, 4-27, 4-28, 4-29, 4-31, 4-32, 4-45, 4-48, 4-49, 4-56 1-8 3-69, 3-70, 3-71–3-72, 4-37–4-40, 4-46,

	4-51, 4-52–4-54, 5-3, 5-7, 5-10
N	
National Ambient Air Quality Standards	3-9, 3-10
National Historic Preservation Act	3-XX?, 5-2
National Priorities List (NPL)	3-17, 3-69, 5-3, 5-6
National Register of Historic Places (NRHP)	3-42, 3-43, 3-44
National Synchrotron Light Source (NSLS)	1-8, 1-11, 3-4
Native American resources	3-42-3-43, 3-44
Native American tribes	3-43
Native Americans, legislation concerning	3-43
National Emission Standards for Hazardous	
Air Pollutants (NESHAP)	3-56, 4-48, 5-3, 5-5
neutron scattering	1-1, 1-11, 1-14, 1-15, 1-20
noise	3-9, 3-10–3-11, 4-6–4-8, 5-5
noise, industrial	3-66
noist, muisim	
0	
occupational health and safety	3-54-XX, 4-24-4-36, 5-2
Operable Units (OUs), defined	1-5, 1-21
OU III	1-5. 3-18, 3-19–3-20, 3-21, 3-25, 4-9,
	4-10, 4-11, 4-47, 5-3
OU V	3-18, 3-20-3-21
	2 10, 2 20 2 21
P	
paleontological resources	3-42, 3-44, 4-19
Pine Barrens	3-5, 3-12, 3-33, 3-35, 3-38, 5-12
pollution prevention	3-69, 4-38, 4-55, 5-3, 5-7, 5-11
Pollution Prevention Act	5-7
prehistoric resources	3-42, 5-2
probabilistic risk assessment (PRA)	4-24, 4-29, 4-30, 4-33, 4-34, 4-35
protein data bank	1-11
public health and safety	3-54-XX, 4-24-4-36, 5-5
Q	
No entries	
R	
radiation	
exposure limits	4-13
units	<del>1</del> -13
sources	4-25, 4-27, 4-31
risk estimators	4-24
reasonably foreseeable actions	3-1, 4-43-4-44, 4-45, 4-46-4-48, 4-50,
reasonably foresecable actions	4-51, 4-52, 4-53, 4-55
Region of Influence (ROI)	1 31, 1 32, 7 33, 7 33
for cultural resources	
for environmental justice	3-75
for geology	3-26
for land use	3-2
for paleontological resources	
· •	

for socioeconomics Relativistic Heavy Ion Collider (RHIC) Resource Conservation and Recovery Act (RCRA)	3-46–3-49 1-10, 1-11, 3-4, 3-8, 4-47, 4-48, 4-49, 4-50–4-51, 4-52, 4-53, 4-53 3-72, 5-4, 5-6, 5-7
Savannah River Site (SRS) scoping 1-1, 1-2, 1-3, 1-4, 4-43 seismicity significance threshold Single Crystal Neutron Diffraction Small Angle Neutron Scattering (SANS) socioeconomics Spallation Neutron Source (SNS) spent nuclear fuel (SNF) Spent Nuclear Fuel Management Program surface water  T Tandem Van de Graaff terrestrial resources threatened species  transportation transuranic waste (TRU) Triple Axis Spectrometer tritium	1-6, 1-21, 2-1, 3-52, 3-53, 3-70, 4-22  3-26-3-XX, 4-13 4-44, 4-45, 4-47-4-50, 4-51 1-11 1-11 3-46-3-XX, 4-20-4-21, 4-43 4-48, 4-49, 4-50, 4-51, 4-52, 4-53, 4-54 1-6, 1-7, 3-69-3-70, 4-37-4-39 1-6, 3-53 3-12  1-8, 1-10 3-31, 3-32, 4-14, 4-15, 4-16, 4-17, 4-18 3-31, 3-32, 3-40, 3-41, 4-15, 4-16, 4-17, 4-18, 5-12 3-50-3-XX, 4-22-4-23, 5-7, 5-9 1-7
U Upton, Camp Upton, General Emery Upton National Forest	1-8, 3-4, 3-7, 3-43–3-44 3-43 3-43
V visual resources	3-2, 3-5–3-6, 4-2
$\mathbf{W}$	

war	
Civil	3-43
Cold	3-42
Revolutionary	3-43
World War I	3-43
World War II	1-8, 3-8, 3-43
waste management	3-69-3-XX, 4-37-4-41, 4-44, 4-45,
	4-46, 4-48, 4-51–4-54, 4-56, 5-9, 5-12
Waste Management Facility (WMF)	5-4
water resources	3-12
wetlands	3-31, 3-37, 4-14, 4-15, 4-16, 4-18, 5-6

## **X,Y,Z**No entries